RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/623, 505 A

Source: _____ JFW16

Date Processed by STIC: _____ 02/03/2006

ENTERED

RAW SEQUENCE LISTING   DATE: 02/03/2006
PATENT APPLICATION: US/10/623,505A   TIME: 11:50:31

Input Set : A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT
Output Set: N:\CRF4\02032006\J623505A.raw

```
 4 <110> APPLICANT: YE, Jane et al.
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
 7        ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 8        THEREOF
10 <130> FILE REFERENCE: CL001158DIV2
12 <140> CURRENT APPLICATION NUMBER: 10/623,505A
13 <141> CURRENT FILING DATE: 2003-07-22
15 <150> PRIOR APPLICATION NUMBER: 10/096,960
16 <151> PRIOR FILING DATE: 2002-03-14
18 <150> PRIOR APPLICATION NUMBER: 09/800,960
19 <151> PRIOR FILING DATE: 2001-03-08
21 <160> NUMBER OF SEQ ID NOS: 20
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 2061
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 cggtgctgcc gggctcagcc ccgtctcctc ctcttgctcc ctcggccggg cggcggtgac 60
32 tgtgcaccga cgtcggcgcg ggctgcaccg ccgcgtccgc ccgcccgcca gcatggccac 120
33 caccgccacc tgcacccgtt tcaccgacga ctaccagctc ttcgaggagc ttggcaaggg 180
34 tgctttctct gtggtccgca ggtgtgtgaa gaaaacctcc acgcaggagt acgcagcaaa 240
35 aatcatcaat accaagaaat tgtctgcccg ggatcaccag aaactagaac gtgaggctcg 300
36 gatatgtcga cttctgaaac atccaaacat cgtgcgcctc catgacagta tttctgaaga 360
37 agggtttcac tacctcgtgt ttgaccttgt taccggcggg gagctgtttg aagacattgt 420
38 ggccagagag tactacagtg aagcagatgc cagccactgt atacatcaga ttctggagag 480
39 tgttaaccac atccaccagc atgacatcgt ccacagggac ctgaagcctg agaacctgct 540
40 gctggcgagt aaatgcaagg gtgccgccgt caagctggct gattttggcc tagccatcga 600
41 agtacaggga gagcagcagg cttggtttgg ttttgctggc accccaggtt acttgtcccc 660
42 tgaggtcttg aggaaagatc cctatggaaa acctgtggat atctgggcct gcggggtcat 720
43 cctgtatatc ctcctggtgg gctatcctcc cttctgggat gaggatcagc acaagctgta 780
44 tcagcagatc aaggctggag cctatgattt cccatcacca gaatgggaca cggtaactcc 840
45 tgaagccaag aacttgatca accagatgct gaccataaac ccagcaaagc gcatcacggc 900
46 tgaccaggct ctcaagcacc cgtgggtctg tcaacgatcc acggtggcat ccatgatgca 960
47 tcgtcaggag actgtggagt gtttgcgcaa gttcaatgcc cggagaaaac tgaagggtgc 1020
48 catcctcacg accatgcttg tctccaggaa cttctcagtt ggcaggcaga gctccgcccc 1080
49 cgcctcgcct gccgcgagcg ccgccggcct ggccgggcaa gctgccaaaa gcctattgaa 1140
50 caagaagtcg gatggcggtg tcaagaaaag gaagtcgagt tccagcgtgc acctaatgga 1200
51 gccacaaacc actgtggtac acaacgctac agatgggatc aagggctcca cagagagctg 1260
52 caacaccacc acagaagatg aggacctcaa agctgccccg ctccgcactg ggaatggcag 1320
53 ctcggtgcct gaaggacgga gctcccggga cagaacagcc ccctctgcag gcatgcagcc 1380
54 ccagccttct ctctgctcct cagccatgcg aaaacaggag atcattaaga ttacagaaca 1440
55 gctgattgaa gccatcaaca atgggggactt tgaggcctac acgaagattt gtgatccagg 1500
```

RAW SEQUENCE LISTING   DATE: 02/03/2006
PATENT APPLICATION: **US/10/623,505A**   TIME: 11:50:31

Input Set : **A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT**
Output Set: **N:\CRF4\02032006\J623505A.raw**

```
56 cctcacttcc tttgagcctg aggcccttgg taacctcgtg gaggggatgg atttccataa 1560
57 gttttacttt gagaatctcc tgtccaagaa cagcaagcct atccatacca ccatcctaaa 1620
58 cccacacgtc cacgtgattg gggaggacgc agcgtgcatc gcctacatcc gcctcaccca 1680
59 gtacatcgac gggcagggtc ggcctcgcac cagccagtca gaagagaccc gggtctggca 1740
60 ccgtcgggat ggcaagtggc tcaatgtcca ctatcactgc tcaggggccc ctgccgcacc 1800
61 gctgcagtga gctcagccac aggggcttta ggagattcca gccggaggtc caaccttcgc 1860
62 agccagtggc tctggagggc ctgagtgaca gcggcagtcc tgtttgtttg aggtttaaaa 1920
63 caattcaatt acaaaagcgg cagcagccaa tgcacgcccc tgcatgcagc cctcccgccc 1980
64 gcccttcgtg tctgtctctg ctgtaccgag gtgttttta catttaagaa aaaaaaaaa 2040
65 aaaaaaaaaa aaaaaaaaaa a                                          2061
```

```
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 565
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens

72 <400> SEQUENCE: 2
73 Met Ala Thr Thr Ala Thr Cys Thr Arg Phe Thr Asp Asp Tyr Gln Leu
74 1               5                   10                  15
75 Phe Glu Glu Leu Gly Lys Gly Ala Phe Ser Val Val Arg Arg Cys Val
76                 20                  25                  30
77 Lys Lys Thr Ser Thr Gln Glu Tyr Ala Ala Lys Ile Ile Asn Thr Lys
78             35                  40                  45
79 Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg Glu Ala Arg Ile
80      50                  55                  60
81 Cys Arg Leu Leu Lys His Pro Asn Ile Val Arg Leu His Asp Ser Ile
82 65                  70                  75                  80
83 Ser Glu Glu Gly Phe His Tyr Leu Val Phe Asp Leu Val Thr Gly Gly
84                 85                  90                  95
85 Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu Ala Asp
86                 100                 105                 110
87 Ala Ser His Cys Ile His Gln Ile Leu Glu Ser Val Asn His Ile His
88             115                 120                 125
89 Gln His Asp Ile Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Leu
90      130                 135                 140
91 Ala Ser Lys Cys Lys Gly Ala Ala Val Lys Leu Ala Asp Phe Gly Leu
92 145                 150                 155                 160
93 Ala Ile Glu Val Gln Gly Glu Gln Gln Ala Trp Phe Gly Phe Ala Gly
94                 165                 170                 175
95 Thr Pro Gly Tyr Leu Ser Pro Glu Val Leu Arg Lys Asp Pro Tyr Gly
96                 180                 185                 190
97 Lys Pro Val Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu
98             195                 200                 205
99 Val Gly Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln
100      210                 215                 220
101 Gln Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
102 225                 230                 235                 240
103 Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile Asn
104                 245                 250                 255
105 Pro Ala Lys Arg Ile Thr Ala Asp Gln Ala Leu Lys His Pro Trp Val
106             260                 265                 270
```

RAW SEQUENCE LISTING   DATE: 02/03/2006
PATENT APPLICATION: US/10/623,505A   TIME: 11:50:31

Input Set : A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT
Output Set: N:\CRF4\02032006\J623505A.raw

```
107 Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val
108         275             280             285
109 Glu Cys Leu Arg Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile
110     290             295             300
111 Leu Thr Thr Met Leu Val Ser Arg Asn Phe Ser Val Gly Arg Gln Ser
112 305             310             315             320
113 Ser Ala Pro Ala Ser Pro Ala Ala Ser Ala Ala Gly Leu Ala Gly Gln
114         325             330             335
115 Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val Lys Lys
116         340             345             350
117 Arg Lys Ser Ser Ser Ser Val His Leu Met Glu Pro Gln Thr Thr Val
118         355             360             365
119 Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn
120     370             375             380
121 Thr Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro Leu Arg Thr Gly
122 385             390             395             400
123 Asn Gly Ser Ser Val Pro Glu Gly Arg Ser Ser Arg Asp Arg Thr Ala
124         405             410             415
125 Pro Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys Ser Ser Ala Met
126         420             425             430
127 Arg Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile
128         435             440             445
129 Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu
130     450             455             460
131 Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp
132 465             470             475             480
133 Phe His Lys Phe Tyr Phe Glu Asn Leu Leu Ser Lys Asn Ser Lys Pro
134         485             490             495
135 Ile His Thr Thr Ile Leu Asn Pro His Val His Val Ile Gly Glu Asp
136         500             505             510
137 Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr Ile Asp Gly Gln
138         515             520             525
139 Gly Arg Pro Arg Thr Ser Gln Ser Glu Glu Thr Arg Val Trp His Arg
140     530             535             540
141 Arg Asp Gly Lys Trp Leu Asn Val His Tyr His Cys Ser Gly Ala Pro
142 545             550             555             560
143 Ala Ala Pro Leu Gln
144                 565
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 62804
149 <212> TYPE: DNA
150 <213> ORGANISM: Homo sapiens
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (1)...(62804)
155 <223> OTHER INFORMATION: n = A,T,C or G
157 <400> SEQUENCE: 3
158 ttgcccctgg cctggtctcc ctgatcaacc cgcgcctgaa gggtttcttt ctaataatgg 60
159 ccctggtgct tgcgcaagtc tagactgtca gctcccagag ggaaggcggc tggcagctgg 120
```

```
        160 ctctgcgcag gctgggggcg cctcccgggc gtgcagcctg gcacaggctc cttgaccttg 180
        161 gctctctccc cacgtgctag gagcccggtt gggggctcgg gacccgcgtg taggacccgt 240
        162 ccagagaggt cagtggtcca gactcctaca ctcctaacac atgcaccctc gcatgcacgt 300
W--> 163 tcccgagccc gcgcggggtc cgccccggga caagcccata agtcgcgaac cttccagnnn 360
        164 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
        165 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
        166 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
        167 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
        168 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
        169 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
        170 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
        171 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
        172 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
        173 nnnnnnnnnn nnnnnnnnnn nnnnntgtaa gccaccggcg ccgggcggtc tcgacattaa 960
        174 atttcaaaat gttttctccg gtttgtcact tgtggtttta ctatgttcaa tgggtctcac 1020
        175 caagcaattt tgcaaaatag ttaacttatt ctcttttttct tacatgactt cttgactttg 1080
        176 agccatagtt aggaaaggtt tgctcactct cacattagag taaaatttat ccacattttc 1140
        177 atctaggatt agtgctcatt tttttattat tatgaatatc ttcttcattt ggggtttgtt 1200
        178 catgtatatt ccatgaacaa tggacgcggg tgcagcattt tagcatcagc tatcccttc 1260
        179 ccatccgcaa tgagctggcc gctgcagcag ccccggcccc ccaccccac ccgcggcgcc 1320
        180 gagcccggcc actgcagccc ccgccccgcc cgcccccca gacgtttcca gagctcagag 1380
        181 tgcgagctcc cgtttgacgg ggacgtcaag gaaaatagca tgggaagggg agttcttgat 1440
        182 gtctgactgt gtcctctctt cccttgctgt cagttgagcc gggatgcagt gagatgaaac 1500
        183 cggctgtggg ggggtttgag cctcactttg ccccatggtt gagggagatt tctctttcag 1560
        184 gggatgatac cctctttta atctttcctt ccccgacctt cagctgttcc tgctgagaga 1620
        185 agggcagggt ctctctgctc ccttctgccc tggttctctt ggccgggacc gcagggctgt 1680
        186 ctgagatgca gcaggtgtgt gttttcagca tcgcccaccc gctcctgatg tgcagcctga 1740
        187 ggtggaggct gttgccttgc ccagggactg gatgaggggg tgggagcgcg gcacgccacc 1800
        188 cacatctgtt cagtgtcctg cggtggccgc gtccttttgc ctcatgttgg atggtggtgg 1860
        189 tcacagcgcc ggtgtgtgtg catgtacgtg agtgtgacta gaggtctggt ggtgggagca 1920
        190 tcatcgtccc cagacttgaa gtgtgtctgt gtcactctgc cctgctccgt gtcccagttc 1980
        191 ttttcccctt ctccctccag gggtgctttc tctgtggtcc gcaggtgtgt gaagaaaacc 2040
        192 tccacgcagg agtacgcagc aaaaatcatc aataccaaga aattgtctgc ccggggtgag 2100
        193 tgttccctgt cttgacctct tcctgagggt gcctccaggg gccatggttt cttttgagga 2160
        194 agccccagga attggggggtt gtgcgtttta gcacttggag aggagttgga atttcagact 2220
        195 ggttggactt tgtgtcaggc tgaagccaga aaaggagttg catgggggac tggaagcgcc 2280
        196 caggtacaaa agaatgaagg aagagatgca agtagctgca gtggcccca aaggctcaag 2340
        197 ggagttcggt cttcagggag gtggaggata tgggggtagt gggtggtaca gaatggggag 2400
        198 ctcttaattt ggggcatttg gagcctctcc ctttggggca gtggtggcta ctgcaggcct 2460
        199 ttcctggtcc cttcttcacc acgggctgag ttaggatgga aatgcagtaa gtgagcagct 2520
        200 ctgacaaagc cagcctcccc tgcccaccag gcggcagaac agactcccaa gggaagggaa 2580
        201 tctgtaaaca tcaggggagg ctgctactgg cgagggcttc tcaggaacaa attctgccag 2640
        202 atgaacttga ttgcttttt gatcaaatta caaagttggt ggtgcagcag cagatgtagt 2700
        203 ctgtcctggg tggagggtga tgcctcatgg tctagaaatc ccaaaggccc ggtttgggca 2760
        204 ggaactgcac tgcctccgaa ctgcactgcc tccgagtctg aggagcataa aggccaaggc 2820
        205 cttggggcct cacttgcgag atcctcccaa gtacctgagg cttggagggt cagggcctgt 2880
        206 ctttcacacc ttgaacctac actctctgaa cttcctattg ggtacttgcc aaactcacct 2940
        207 catctgatag gtgtagaccc agcaatgtgt gaagtgctct gggaacaggt ctggtgagta 3000
        208 cagaggtcag atctcggagg gctgcagggt gcagctgggg gacaaaggtt gtgaaactca 3060
```

RAW SEQUENCE LISTING   DATE: 02/03/2006
PATENT APPLICATION: US/10/623,505A   TIME: 11:50:31

Input Set : A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT
Output Set: N:\CRF4\02032006\J623505A.raw

```
209 gagaaaggaa ttagggctgg gcagtaggat gccataaata tatttggagc caggacacat 3120
210 gccctggggga agacatgggc tttggccaat aatgacacgg gtttctctgg gataagagac 3180
211 ataatagatg tcccaaatgc ttagagaagc tctacaattc cacgggcttc tgtcgtgttg 3240
212 gcagttgttc tgggacctgt ttagcagggc cgtgtccact ccctgactgg ggactctctc 3300
213 tccatccctc tggtagggca ctaattgctg actcccatcc agctccatct cttgctgttc 3360
214 gtgtacattg cctataaagt tggacttgtt tgttttcttt ctctctgggt accttgagtc 3420
215 tgaggatggt tgccatagag atatgtgggc agtcagatac cctggagtgg gggtgggggg 3480
216 gacaacaggg gctgggctct ctggcagaca tcctctggcc aaggatggaa ggtgcaggca 3540
217 ggaacaatgg cttgaggctg gatacctctc ttgcccacac agcagagccc tggtgcatca 3600
218 gaaacagggc tggcatctgg tgtctccagt tgatgatgca atgctttgct ctcttcatct 3660
219 caccagtgtc ctctgaccca tgggtaagag aaggagagat ggctgggagc cgaattctgg 3720
220 gatgtgagga taggtgatgt ggtgacttcc tgcagctgcc tgactggggc tttcatttcc 3780
221 tactccttcc ctacctgcgt aaatttccat gacctgtgtg atagcctccc tttcccttcc 3840
222 tcacctcctt ttaaccttgt cccatctttc ccaatggata tctttccctg gccaaactgg 3900
223 atgagacttg atttctcgtt gattttttt ttttccccct caagaagagg attcttgtgt 3960
224 aaaagtatat gcttcagaca gcaactcccc ctctcccaag atggatatgc caagactggg 4020
225 ctctgttgtg tggcctcatg tgccaggttg actttgggac agaggcacag atgataggca 4080
226 cagatgccag ccagaggggt cagaatgtgt aagtgccagc cagtactgtg tggaggtggg 4140
227 aaagtggaaa ggggctgtct tggagatgga gggaacaagg tggggctgga ctataggtgt 4200
228 gggcatggga gatgtgaact cctggagaga tctgggccag ggtagccatg ggctggttcc 4260
229 catggggtta gggagtgagg gccatggctt ccctgcagac tctcagttta cactatatat 4320
230 tttataaagg tgcagccact ggagctgggt ttcactcatc gctgtctgcc taggtctccg 4380
231 caggtgttgg atttctgtgt ctgggaatgt cgtgggccca ccagggtcat ctgtgaaggt 4440
232 ctgaaggggc ttgctgtgtt cactgggtct tcctgcctcc tgtctttctt gtttgtgatt 4500
233 ctctgggcta caaactgaaa agataaaaag agggtataga gctgtttctc cttggcatcc 4560
234 ctggtgaggt ggctaggagt cagggagagg gatcacctgt tcttctgggg gggtccaatc 4620
235 gagacaggaa gccttctttt gggctgttgt gtcttgtcac tgtggcctca gaggcccaca 4680
236 ttggcggcta ggttgcaagg tggggagttc atgcggatat gcgttgagca ctgtctttgt 4740
237 ctgcgggcct gtctacataa agtcactgaa agtcacataa cgtcactccg tttgcttcag 4800
238 aaccgtgata ggagtggagc tgggctctta agggagccca tggttccaag cttagctcca 4860
239 ctaggccgaa ggaggcattt aaaataggct tggatgcagg agctagtggg ccaggtgatg 4920
240 gcaatgataa gtcgttattt taagatttaa gagcacccc ctcaaggagc ctgagccctt 4980
241 atgtcttttt ttatttttaa atcttcatat tcccttctta tctttattca tatgcataca 5040
242 gattttcacc tcgtggagca taacatttta tatcctgctc tctttgctta tatccaaagc 5100
243 atttcccca tattactaca gttgaagggc aaatggtcct ttcttctacg tcgtttagga 5160
244 tttatcccta aaacaatcag catcacaaga aacttctgta tatgtaccat ttatctggat 5220
245 tccagttgct tttaccaaga tagatactgg ggtaatgccc ttggccttac taagagatgc 5280
246 taccggaaac agtgttttga aatctgttat aatactttaa catatttatt taatctgtac 5340
247 attccgtgtg aagaaatttc ttttgaagct aaatgtaagc aaaagctttc ctctttgtga 5400
248 ggacctgaga ggtgagggaa gggtccttat gtgtttctat acttctgcat gggcaggccc 5460
249 tagcgaagtg cctgacgtat gccagccaca tacacattaa atgaatgggt caagaggact 5520
250 atgtaaccaa tcatggttgc cttttggctt tggctcctag gaaactcaga gtcaagttgc 5580
251 cagagccctt gtaccctgct acagacttgg gtcctccctt tctgatccag ggagccaagc 5640
252 tgcagacctg atacggctgc tggaagagag gacagatgag gataaagacc tgtgcttggg 5700
253 gcataaggca gagtgggaga tgtaggcaga catttagctg atgattcctc cttccctgtc 5760
254 actaaatggc actataggc cactgttggg atctcttcca ggtagtgatt ttcaattta 5820
255 gtgtgcgtaa ggatcaccct gagtactagt ttaaaaaata cagacttctg ggctttagcc 5880
256 acagagattc tgctttagga ggtctagggt ggagctgcag aatctgcatt tttaacacat 5940
257 gctccagtga atttcatgca ggtgaggcat gagccactct ttaagagatg ccacctaaaa 6000
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/03/2006
PATENT APPLICATION: US/10/623,505A   TIME: 11:50:32

Input Set : A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT
Output Set: N:\CRF4\02032006\J623505A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:3; N Pos. 358,359,360,361,362,363,364,365,366,367,368,369,370,371,372
Seq#:3; N Pos. 373,374,375,376,377,378,379,380,381,382,383,384,385,386,387
Seq#:3; N Pos. 388,389,390,391,392,393,394,395,396,397,398,399,400,401,402
Seq#:3; N Pos. 403,404,405,406,407,408,409,410,411,412,413,414,415,416,417
Seq#:3; N Pos. 418,419,420,421,422,423,424,425,426,427,428,429,430,431,432
Seq#:3; N Pos. 433,434,435,436,437,438,439,440,441,442,443,444,445,446,447
Seq#:3; N Pos. 448,449,450,451,452,453,454,455,456,457,458,459,460,461,462
Seq#:3; N Pos. 463,464,465,466,467,468,469,470,471,472,473,474,475,476,477
Seq#:3; N Pos. 478,479,480,481,482,483,484,485,486,487,488,489,490,491,492
Seq#:3; N Pos. 493,494,495,496,497,498,499,500,501,502,503,504,505,506,507
Seq#:3; N Pos. 508,509,510,511,512,513,514,515,516,517,518,519,520,521,522
Seq#:3; N Pos. 523,524,525,526,527,528,529,530,531,532,533,534,535,536,537
Seq#:3; N Pos. 538,539,540,541,542,543,544,545,546,547,548,549,550,551,552
Seq#:3; N Pos. 553,554,555,556,557,558,559,560,561,562,563,564,565,566,567
Seq#:3; N Pos. 568,569,570,571,572,573,574,575,576,577,578,579,580,581,582
Seq#:3; N Pos. 583,584,585,586,587,588,589,590,591,592,593,594,595,596,597
Seq#:3; N Pos. 598,599,600,601,602,603,604,605,606,607,608,609,610,611,612
Seq#:3; N Pos. 613,614,615,616,617,618,619,620,621,622,623,624,625,626,627
Seq#:3; N Pos. 628,629,630,631,632,633,634,635,636,637,638,639,640,641,642
Seq#:3; N Pos. 643,644,645,646,647,648,649,650,651,652,653,654,655,656,657
Seq#:3; N Pos. 658,659,660,661,662,663,664,665,666,667,668,669,670,671,672
Seq#:3; N Pos. 673,674,675,676,677,678,679,680,681,682,683,684,685,686,687
Seq#:3; N Pos. 688,689,690,691,692,693,694,695,696,697,698,699,700,701,702
Seq#:3; N Pos. 703,704,705,706,707,708,709,710,711,712,713,714,715,716,717
Seq#:3; N Pos. 718,719,720,721,722,723,724,725,726,727,728,729,730,731,732
Seq#:3; N Pos. 733,734,735,736,737,738,739,740,741,742,743,744,745,746,747
Seq#:3; N Pos. 748,749,750,751,752,753,754,755,756,757,758,759,760,761,762
Seq#:3; N Pos. 763,764,765,766,767,768,769,770,771,772,773,774,775,776,777
Seq#:3; N Pos. 778,779,780,781,782,783,784,785,786,787,788,789,790,791,792
Seq#:3; N Pos. 793,794,795,796,797,798,799,800,801,802,803,804,805,806,807
Seq#:3; N Pos. 808,809,810,811,812,813,814,815,816,817,818,819,820,821,822
Seq#:3; N Pos. 823,824,825,826,827,828,829,830,831,832,833,834,835,836,837
Seq#:3; N Pos. 838,839,840,841,842,843,844,845,846,847,848,849,850,851,852
Seq#:3; N Pos. 853,854,855,856,857,858,859,860,861,862,863,864,865,866,867
Seq#:3; N Pos. 868,869,870,871,872,873,874,875,876,877,878,879,880,881,882
Seq#:3; N Pos. 883,884,885,886,887,888,889,890,891,892,893,894,895,896,897
Seq#:3; N Pos. 898,899,900,901,902,903,904,905,906,907,908,909,910,911,912
Seq#:3; N Pos. 913,914,915,916,917,918,919,920,921,922,923,924,925
```

VERIFICATION SUMMARY   DATE: 02/03/2006
PATENT APPLICATION: **US/10/623,505A**   TIME: 11:50:32

Input Set : **A:\1158DIV2 SUBST_SEQLIST_JAN06.TXT**
Output Set: **N:\CRF4\02032006\J623505A.raw**

L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300
M:341 Repeated in SeqNo=3